



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0217

Project: 21-0217, Piney Point - Phase 1 - Reported by Floyd Wellborn

April 12, 2021

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 21-0217, Piney Point - Phase 1

**FROM:** Floyd Wellborn  
LSB Inorganic Chemistry Section Chief

**THRU:** Sandra Aker, Chief  
Laboratory Services Branch

**TO:** Floyd Wellborn

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Accreditations:

**Classical/Nutrient Analyses (CNA)**

Ammonia as N	EPA 350.1 (Water)	ISO
Ammonia/TKN	EPA 351.2 (Water)	ISO
Nitrate and/or Nitrite	EPA 353.2 (Water)	ISO/DW
Phosphorous	EPA 365.1 (Water)	ISO
Solids	USGS I-3765-85 (Water)	ISO

**Physical Properties (PHYSP)**

Turbidity of Preserved Metals Samples	EPA 180.1 (Water)	NR
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**Sample Disposal Policy**

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at [R4SampleCustody@epa.gov](mailto:R4SampleCustody@epa.gov).

cc: Nardina Turner



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**SAMPLES INCLUDED IN THIS REPORT**

**Project: 21-0217, Piney Point - Phase 1**

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
NW. Ditch	E211509-01	Saline Water	4/8/21 10:51	4/9/21 10:50
Decant Outfall	E211509-02	Saline Water	4/8/21 11:52	4/9/21 10:50



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## DATA QUALIFIER DEFINITIONS

- J The identification of the analyte is acceptable; the reported value is an estimate.
- Q-2 Result greater than MDL but less than MRL.

## ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ([www.epa.gov/srs](http://www.epa.gov/srs)), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

### ACCREDITATIONS:

ISO Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Laboratories.

Refer to the certificate and scope of accreditation FT-0330 at:  
<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>

NR Not accredited for this test.

DW Accredited for conformance with ISO/IEC 17025:2017 and testing elements in the Fifth Edition of the Manual for the Certification of Laboratories Analyzing Drinking Water, EPA 815-R-05-004, 2005.

Refer to the certificate and scope of accreditation AT-2628 at:  
<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>

ISO/DW Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Labs, and conformance with ISO/IEC 17025:2017 and testing elements in the Manual for the Certification of Laboratories Analyzing Drinking Water.



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## Classical/Nutrient Analyses

Project: 21-0217, Piney Point - Phase 1

Sample ID: NW. Ditch

Lab ID: E211509-01

Station ID:

Matrix: Saline Water

Date Collected: 4/8/21 10:51

CAS Number	Analyte	Results	Qualifiers	Units	MDL MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	210		mg/L	1.2 5.0	4/09/21 12:16	4/09/21 16:42	EPA 350.1
E17148461	Total Kjeldahl Nitrogen	210		mg/L	4.3 5.0	4/10/21 9:45	4/11/21 12:25	EPA 351.2
E701177	Nitrate/Nitrite as N	0.014	J, Q-2	mg/L	0.0093 0.030	4/10/21 10:15	4/10/21 20:06	EPA 353.2
14265-44-2	Orthophosphate as P	140		mg/L	1.9 5.0	4/09/21 13:16	4/09/21 16:18	EPA 365.1
7723-14-0	Total Phosphorus	140		mg/L	2.1 5.0	4/11/21 10:57	4/11/21 12:03	EPA 365.1
E1642818	Total Suspended Solids	32		mg/L	5.0	4/09/21 12:13	4/12/21 9:24	USGS I-3765-85



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## Physical Properties

**Project: 21-0217, Piney Point - Phase 1**

**Sample ID:** NW. Ditch

**Lab ID:** E211509-01

**Station ID:**

**Matrix:** Saline Water

**Date Collected:** 4/8/21 10:51

CAS Number	Analyte	Results	Qualifiers	Units	MDL MRL	Prepared	Analyzed	Method
E1640507	Turbidity	21		NTU	1.0	4/09/21 13:09	4/09/21 13:30	EPA 180.1



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## Classical/Nutrient Analyses

Project: 21-0217, Piney Point - Phase 1

Sample ID: Decant Outfall

Lab ID: E211509-02

Station ID:

Matrix: Saline Water

Date Collected: 4/8/21 11:52

CAS Number	Analyte	Results	Qualifiers	Units	MDL MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	200		mg/L	1.2 5.0	4/09/21 12:16	4/09/21 16:42	EPA 350.1
E17148461	Total Kjeldahl Nitrogen	200		mg/L	4.3 5.0	4/10/21 9:45	4/11/21 12:25	EPA 351.2
E701177	Nitrate/Nitrite as N	0.021	J, Q-2	mg/L	0.0093 0.030	4/10/21 10:15	4/10/21 20:06	EPA 353.2
14265-44-2	Orthophosphate as P	140		mg/L	1.9 5.0	4/09/21 13:16	4/09/21 16:18	EPA 365.1
7723-14-0	Total Phosphorus	150		mg/L	2.1 5.0	4/11/21 10:57	4/11/21 12:03	EPA 365.1
E1642818	Total Suspended Solids	20		mg/L	5.0	4/09/21 12:13	4/12/21 9:24	USGS I-3765-85



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## Physical Properties

Project: 21-0217, Piney Point - Phase 1

Sample ID: Decant Outfall

Lab ID: E211509-02

Station ID:

Matrix: Saline Water

Date Collected: 4/8/21 11:52

CAS Number	Analyte	Results	Qualifiers	Units	MDL MRL	Prepared	Analyzed	Method
E1640507	Turbidity	22		NTU	1.0	4/09/21 13:09	4/09/21 13:30	EPA 180.1





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Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2104023 - C 351.2 TKN

Blank (2104023-BLK1)

Prepared: 04/10/21 Analyzed: 04/11/21

EPA 351.2

Total Kjeldahl Nitrogen	U	0.050	mg/L							U
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LCS (2104023-BS1)

Prepared: 04/10/21 Analyzed: 04/11/21

EPA 351.2

Total Kjeldahl Nitrogen	1.7670	0.050	mg/L	1.7500		101	90-110			
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Matrix Spike (2104023-MS1)

Source: E211509-02

Prepared: 04/10/21 Analyzed: 04/11/21

EPA 351.2

Total Kjeldahl Nitrogen	297.80	10	mg/L	100.00	196.40	101	90-110			
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Matrix Spike Dup (2104023-MSD1)

Source: E211509-02

Prepared: 04/10/21 Analyzed: 04/11/21

EPA 351.2

Total Kjeldahl Nitrogen	307.00	10	mg/L	100.00	196.40	111	90-110	3.04	20	QM-2
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MRL Verification (2104023-PS1)

Prepared: 04/10/21 Analyzed: 04/11/21

EPA 351.2

Total Kjeldahl Nitrogen	0.066000	0.050	mg/L	0.050000		132	70-130			MRL-2
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Batch 2104024 - C 350.1 Ammonia

Blank (2104024-BLK1)

Prepared & Analyzed: 04/09/21

EPA 350.1

Ammonia as N	U	0.050	mg/L							U
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LCS (2104024-BS1)

Prepared & Analyzed: 04/09/21

EPA 350.1

Ammonia as N	0.96800	0.050	mg/L	1.0000		96.8	90-110			
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Matrix Spike (2104024-MS1)

Source: E211509-02

Prepared & Analyzed: 04/09/21

EPA 350.1

Ammonia as N	298.20	5.0	mg/L	100.00	195.30	103	90-110			
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Matrix Spike Dup (2104024-MSD1)

Source: E211509-02

Prepared & Analyzed: 04/09/21

EPA 350.1

Ammonia as N	299.10	5.0	mg/L	100.00	195.30	104	90-110	0.301	10	
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Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2104024 - C 350.1 Ammonia

MRL Verification (2104024-PS1)

Prepared & Analyzed: 04/09/21

EPA 350.1

Ammonia as N	0.041000	0.050	mg/L	0.050000		82.0	70-130			MRL-2
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Batch 2104030 - C 365.1 Ortho Phos

Blank (2104030-BLK1)

Prepared & Analyzed: 04/09/21

EPA 365.1

Orthophosphate as P	U	0.010	mg/L							U
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LCS (2104030-BS1)

Prepared & Analyzed: 04/09/21

EPA 365.1

Orthophosphate as P	0.50100	0.010	mg/L	0.50050		100	90-110			
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Matrix Spike (2104030-MS1)

Source: E211509-02

Prepared & Analyzed: 04/09/21

EPA 365.1

Orthophosphate as P	0.78700		mg/L	0.50050	0.28000	101	90-110			
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Matrix Spike Dup (2104030-MSD1)

Source: E211509-02

Prepared & Analyzed: 04/09/21

EPA 365.1

Orthophosphate as P	0.78000		mg/L	0.50050	0.28000	99.9	90-110		10	
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MRL Verification (2104030-PS1)

Prepared & Analyzed: 04/09/21

EPA 365.1

Orthophosphate as P	0.011000	0.010	mg/L	0.010000		110	70-130			MRL-2
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Batch 2104033 - C 2540 Solids

Blank (2104033-BLK1)

Prepared: 04/09/21 Analyzed: 04/12/21

USGS I-3765-85

Total Suspended Solids	U	5.0	mg/L							U
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LCS (2104033-BS1)

Prepared: 04/09/21 Analyzed: 04/12/21

USGS I-3765-85

Total Suspended Solids	90.700	5.0	mg/L	100.00		90.7	77.1-110			
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**Classical/Nutrient Analyses (CNA) - Quality Control**

**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2104033 - C 2540 Solids**

**LCS Dup (2104033-BSD1)**

Prepared: 04/09/21 Analyzed: 04/12/21

**USGS I-3765-85**

Total Suspended Solids	90.000	5.0	mg/L	100.00	90.0	77.1-110	0.775	10	
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**Duplicate (2104033-DUP1)**

Source: E211509-02

Prepared: 04/09/21 Analyzed: 04/12/21

**USGS I-3765-85**

Total Suspended Solids	21.500	5.0	mg/L	19.900	7.73		10	
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**MRL Verification (2104033-PS1)**

Prepared: 04/09/21 Analyzed: 04/12/21

**USGS I-3765-85**

Total Suspended Solids	3.3000	5.0	mg/L	5.0000	66.0	57.1-130		MRL-2, U
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**Batch 2104034 - C 353.2 NO3-NO2**

**Blank (2104034-BLK1)**

Prepared & Analyzed: 04/10/21

**EPA 353.2**

Nitrate/Nitrite as N	U	0.050	mg/L					U
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**LCS (2104034-BS1)**

Prepared & Analyzed: 04/10/21

**EPA 353.2**

Nitrate/Nitrite as N	0.50170	0.050	mg/L	0.50150	100	90-110		
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**Matrix Spike (2104034-MS1)**

Source: E211509-01

Prepared & Analyzed: 04/10/21

**EPA 353.2**

Nitrate/Nitrite as N	0.48030	0.050	mg/L	0.50150	0.013900	93.0	90-110	
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**Matrix Spike Dup (2104034-MSD1)**

Source: E211509-01

Prepared & Analyzed: 04/10/21

**EPA 353.2**

Nitrate/Nitrite as N	0.49740	0.050	mg/L	0.50150	0.013900	96.4	90-110	3.50	10
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**MRL Verification (2104034-PS1)**

Prepared & Analyzed: 04/10/21

**EPA 353.2**

Nitrate/Nitrite as N	0.053000	0.050	mg/L	0.050000	106	70-130		MRL-2
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**Batch 2104035 - C 365.1 TPhos**

**Blank (2104035-BLK1)**

Prepared & Analyzed: 04/11/21

**EPA 365.1**



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**Classical/Nutrient Analyses (CNA) - Quality Control**

**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104035 - C 365.1 TPhos										
Blank (2104035-BLK1)				Prepared & Analyzed: 04/11/21						
Total Phosphorus	U	0.010	mg/L							U
LCS (2104035-BS1)				Prepared & Analyzed: 04/11/21						
EPA 365.1										
Total Phosphorus	0.37800	0.010	mg/L	0.37800		100	90-110			
Matrix Spike (2104035-MS1)				Source: E211509-02		Prepared & Analyzed: 04/11/21				
EPA 365.1										
Total Phosphorus	145.00	5.0	mg/L	0.50050	147.00	-400	90-110			XM-1
Matrix Spike Dup (2104035-MSD1)				Source: E211509-02		Prepared & Analyzed: 04/11/21				
EPA 365.1										
Total Phosphorus	146.50	5.0	mg/L	0.50050	147.00	-99.9	90-110	1.03	10	XM-1
MRL Verification (2104035-PS1)				Prepared & Analyzed: 04/11/21						
EPA 365.1										
Total Phosphorus	0.010000	0.010	mg/L	0.010000		100	70-130			MRL-2



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**Physical Properties (PHYSP) - Quality Control**

**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2104029 - M Turbidity</b>										
<b>Blank (2104029-BLK1)</b>					Prepared & Analyzed: 04/09/21					
<b>EPA 180.1</b>										
Turbidity	U	1.0	NTU							U
<b>Blank (2104029-BLK2)</b>					Prepared & Analyzed: 04/09/21					
<b>EPA 180.1</b>										
Turbidity	U	1.0	NTU							U
<b>LCS (2104029-BS1)</b>					Prepared & Analyzed: 04/09/21					
<b>EPA 180.1</b>										
Turbidity	10.300	1.0	NTU	10.000		103	90-110			
<b>LCS (2104029-BS2)</b>					Prepared & Analyzed: 04/09/21					
<b>EPA 180.1</b>										
Turbidity	10.300	1.0	NTU	10.000		103	90-110			
<b>LCS (2104029-BS3)</b>					Prepared & Analyzed: 04/09/21					
<b>EPA 180.1</b>										
Turbidity	10.400	1.0	NTU	10.000		104	90-110			
<b>LCS (2104029-BS4)</b>					Prepared & Analyzed: 04/09/21					
<b>EPA 180.1</b>										
Turbidity	10.400	1.0	NTU	10.000		104	90-110			
<b>Reference (2104029-SRM1)</b>					Prepared & Analyzed: 04/09/21					
<b>EPA 180.1</b>										
Turbidity	1.4800	1.0	NTU	1.4800		100	0-200			
<b>Reference (2104029-SRM2)</b>					Prepared & Analyzed: 04/09/21					
<b>EPA 180.1</b>										
Turbidity	16.100	1.0	NTU	16.100		100	0-200			
<b>Reference (2104029-SRM3)</b>					Prepared & Analyzed: 04/09/21					
<b>EPA 180.1</b>										
Turbidity	1.5000	1.0	NTU	1.4800		101	0-200			
<b>Reference (2104029-SRM4)</b>					Prepared & Analyzed: 04/09/21					



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**Physical Properties (PHYSP) - Quality Control**  
**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2104029 - M Turbidity**

**Reference (2104029-SRM4)**

Prepared & Analyzed: 04/09/21

**EPA 180.1**

Turbidity	16.300	1.0	NTU	16.100		101	0-200			
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**Notes and Definitions for QC Samples**

U	The analyte was not detected at or above the reporting limit.
MRL-2	MRL verification for Non-Potable Water matrix
QM-2	Matrix Spike Recovery greater than method control limits
XM-1	Sample background/spike ratio higher than method evaluation criteria